

Form PTO-1449 US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<i>Complete if Known</i>	
				Application Number	10/719,521
				Filing Date	November 21, 2003
				First Named Inventor	Yukihisa TAKEUCHI
				Art Unit	2821
				Examiner Name	Thuy V. Tran
				Confirmation No.	3363
Sheet	1	of	1	Attorney Docket No.	789_120

## U.S. PATENT DOCUMENTS

Exam. Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
1-1	DD	6,514,891	02/2003	Lee, Yoon Kwan	/	501	32	/

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation	Abstract

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages etc.)

Examiner:	Thuy V. Tran	Date Considered:	3/12/05

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*In accordance with the Notice dated July 11, 2003 on the PTO website, we are not enclosing copies of any of the above U.S. references.

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US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				Application Number	10/719,521
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Filing Date	November 21, 2003
				First Named Inventor	Yukihisa TAKEUCHI
				Art Unit	2821
				Examiner Name	<del>Don Kitson</del> WONG Tran, Thuy V.
				Confirmation No.	3363
Sheet	1	of	1	Attorney Docket No.	789_120

### U.S. PATENT DOCUMENTS

Exam. Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
11-	DB	6,184,610 B1	02/06/2001	Shibata et al.	/	313	309	/
11,	DC	5,382,867	01/17/1995	Maruo et al.	/	313	309	/

### U.S. RELATED COPENDING APPLICATIONS

Exam Initial		Application/ Publication Number	Filing/ Publication Date	Inventor Name	Our Docket No.	Class	Sub Class

### FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation	Abstract

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages etc.)

Examiner:		Date Considered:	
Thuy V. Tran		03/01/05	

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Sheet	1	of	1	Attorney Docket No.	

Application Number: 10/719,521  
 Filing Date: November 21, 2003  
 First Named Inventor: Yukihisa TAKEUCHI  
 Art Unit: 2821  
 Examiner Name: ~~Don Katsun WONG~~ *Tham, Thuy* ✓  
 Confirmation No.: 3363  
 Attorney Docket No.: 789\_120

#### U.S. PATENT DOCUMENTS

Exam. Initial	Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date

#### U.S. RELATED COPENDING APPLICATIONS

Exam. Initial	Application/ Publication Number	Filing/ Publication Date	Inventor Name	Our Docket No.	Class	Sub Class
<i>ff</i>	<i>DB</i> 10/951,509	09/28/2004	Takeuchi et al.	789_118 CIP3	<i>313</i>	<i>311</i>
<i>ff</i>	<i>DC</i> 10/950,976	09/27/2004	Takeuchi et al.	789_118 CIP6	<i>313</i>	<i>495</i>
<i>ff</i>	<i>DD</i> 10/952,524	09/28/2004	Takeuchi et al.	789_135	<i>313</i>	<i>40</i>
<i>ff</i>	<i>DE</i> 10/951,832	09/28/2004	Takeuchi et al.	789_136	<i>361</i>	<i>100</i>

#### FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub Class	Translation	Abstract

#### OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages etc.)

Examiner: <i>Thuy V. Tran</i>		Date Considered: <i>03/01/05</i>	
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\*In accordance with the Notice signed September 21, 2004 on the PTO website, we are not enclosing copies of any of the above U.S. references or copending applications filed on or after June 30, 2003.

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US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				Application Number	10/719,521
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Filing Date	November 21, 2003
				First Named Inventor	Yukihisa TAKEUCHI
				Art Unit	2821
				Examiner Name	<del>Don Kitson WONG</del> <i>Tran, Thuy V.</i>
				Confirmation No.	3363
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Document Number	Date	Country	Class	Sub Class	Translation	Abstract

#### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages etc.)

<i>1-1</i>	DA	Kanemaru, Seigou, "Featuring: All About Flat Displays 2000, Leading Technological Trend of FEDs," Electronic Engineering, Nikkan Kogyo Shimibun, Ltd., July 2000, pp. 38-41 (with partial translation).

Examiner:	<i>Thuy V. Tran</i>	Date Considered:	<i>03/01/05</i>
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Form PTO-1449

US DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)



Complete if Known

Application Number 10/719,521  
 Filing Date November 21, 2003  
 First Named Inventor YUKIHISA TAKEUCHI  
 Art Unit 2821  
 Examiner Name Don Kitsun WONG *Chan, Thuy* ✓  
 Confirmation No. 3363  
 Attorney Docket No. 789\_120

Sheet

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of

1

## U.S. PATENT DOCUMENTS

Exam Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
<i>TT</i>	CN	2002/0060516 A1	05/23/2002	Kawate et al.	—	313	495	—
<i>TT</i>	CO	6,580,108 B1	06/17/2003	Utsumi et al.	—	257	288	—
<i>TT</i>	CP	6,452,328 B1	09/17/2002	Saito et al.	—	313	495	—
<i>TT</i>	CQ	6,469,452 B2	10/22/2002	Seo et al.	—	315	169.4	—
<i>TT</i>	CR	6,359,383 B1	03/19/2002	Chuang et al.	—	313	496	—
<i>TT</i>	CS	6,274,881 B1	08/14/2001	Akiyama et al.	—	257	10	—
<i>TT</i>	CT	6,184,612 B1	02/06/2001	Negishi et al.	—	313	310	—
<i>TT</i>	CU	6,153,978	11/28/2000	Okamoto	—	315	169.3	—
<i>TT</i>	CV	6,040,973	03/21/2000	Okamoto et al.	—	361	235	—
<i>TT</i>	CW	5,990,605	11/23/1999	Yoshikawa et al.	—	313	310	—
<i>TT</i>	CX	5,877,594	03/02/1999	Miyano et al.	—	315	169.1	—
<i>TT</i>	CY	5,729,094	03/17/1998	Geis et al.	—	315	169.1	—
<i>TT</i>	CZ	5,726,524	03/10/1998	Debe	—	313	309	—
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## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub Class	Translation	Abstract

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages etc.)

Examiner:	<i>Thuy V. Chan</i>	Date Considered:	<i>12/01/05</i>

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US DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Application Number	10/719,521
Filing Date	November 21, 2003
First Named Inventor	Yukihisa TAKEUCHI
Art Unit	<del>2836</del> 2821
Examiner Name	<del>Robert L. Deberadinis</del> Tran, Thuy V.
Confirmation No.	3363
Attorney Docket No.	789_120

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## U.S. PATENT DOCUMENTS

Exam. Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
11	CH	6,313,815	11/06/2001	Takeda et al.	/	345	75.2	/
11	CI	6,285,123	09/04/2001	Yamada et al.	/	313	495	/
11	CJ	5,666,019	09/09/1997	Potter	/	813	306	/

## U.S. RELATED COPENDING APPLICATIONS

Exam. Initial		Application/ Publication Number	Filing/ Publication Date	Inventor Name	Our Docket No.	Class	Sub Class
11	CK	10/919,747	08/17/2001	Takeuchi et al.	789_118 CIP2	313	311
11	CL	10/901,932	07/29/2004	Takeuchi et al.	789_118 CIP5	/	/
11	CM	10/919,678	08/17/2004	Takeuchi et al.	789_133	315	169.3

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation	Abstract

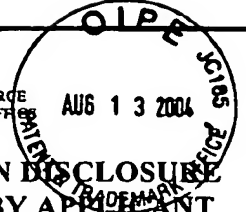
## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages etc.)


Examiner:	Thuy V. Tran	Date Considered:	03/01/05
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				Filing Date	November 21, 2003		
				First Named Inventor	Yukihisa TAKEUCHI		
				Art Unit	2836 2821		
				Examiner Name	Robert L. Deberadino <i>Tran, Thuy</i> ✓		
				Confirmation No.	3363		
Sheet	1	of	1	Attorney Docket No.	789_120		

#### U.S. PATENT DOCUMENTS

Exam. Initial	Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date

#### FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation	Abstract
<i>11</i>	CF	05-325777	12/10/1993	JP			✓	✓
<i>12</i>	CG	08-111166	04/30/1996	JP			✓	✓

#### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages etc.)


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PATENT AND TRADEMARK OFFICE

**INFORMATION DISCLOSURE  
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Sheet 1 of 1

Application Number 10/719,521

Filing Date November 21, 2003

First Named Inventor Yukihsa TAKEUCHI

Art Unit ~~2836~~ 2821

Examiner Name ~~Robert L. Deberadinis~~ Han, Thuy V.

Confirmation No. 3363

Attorney Docket No. 789 120

### U.S. PATENT DOCUMENTS

Exam. Initial	Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date

### FOREIGN PATENT DOCUMENTS

Exam. Initial	Document Number	Date	Country	Class	Sub Class	Translation	Abstract
1.1	CE 3214256	7/27/2001	JP	/	/	Complete English Translation	

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages etc.)


Examiner: Han, Thuy V.	Date Considered: 3/01/05
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US DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

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Sheet 1 of 1

**Complete if Known**

Application Number	10/719,521
Filing Date	November 21, 2003
First Named Inventor	Yukihisa TAKEUCHI
Art Unit	<del>2836</del> 2821
Examiner Name	Robert L. Deberadinis <i>Tian, Thuy V.</i>
Confirmation No.	3363
Attorney Docket No.	789_120

### U.S. PATENT DOCUMENTS

Exam. Initial	Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date

### U.S. COPENDING APPLICATIONS

Exam. Initial	Application/ Publication Number	Filing/ Publication Date	Inventor Name	Our Docket No.	Class	Sub Class
<i>11/</i>	CD 10/808,258	3/24/2004	Takeuchi et al	789 123	345	75.2

### FOREIGN PATENT DOCUMENTS


Document Number	Date	Country	Class	Sub Class	Translation	Abstract

### OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages etc.)


Examiner:	<i>Thuy V. Tran</i>	Date Considered:	<i>03/01/05</i>
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Application Number		10/719,521			
Filing Date		November 21, 2003			
First Named Inventor		Yukihisa TAKEUCHI			
Art Unit		<del>2857</del> - 2821			
Examiner Name		<del>Not assigned</del> <i>Tran, Thuy V.</i>			
Confirmation No.		3363			
Sheet	1	of	1	Attorney Docket No.	789 120

### U.S. PATENT DOCUMENTS

Exam. Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
<i>1A</i>	BR	5,280,221	01/18/1994	Okamoto et al.	<i>/</i>	315	169.1	<i>/</i>
<i>1A</i>	BS	5,747,926	05/05/1998	Nakamoto et al.	<i>/</i>	313	495	<i>/</i>
<i>1A</i>	BT	6,198,225	03/06/2001	Kano et al.	<i>/</i>	315	169.3	<i>/</i>
<i>1A</i>	BU	6,479,924	11/12/2002	Yoo	<i>/</i>	313	310	<i>/</i>

### FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation	Abstract
<i>1A</i>	BV	2675306	10/16/1992	FR	<i>/</i>	<i>/</i>		<i>✓</i>
<i>1A</i>	BW	2789221	08/04/2000	FR	<i>/</i>	<i>/</i>		<i>✓</i>
<i>1A</i>	BX	2789223	08/04/2000	FR	<i>/</i>	<i>/</i>		<i>✓</i>
<i>1A</i>	BY	10057072	05/23/2001	DE	<i>/</i>	<i>/</i>		<i>✓</i>
<i>1A</i>	BZ	0 353 632	02/07/1990	EP	<i>/</i>	<i>/</i>		

### OTHER DOCUMENTS

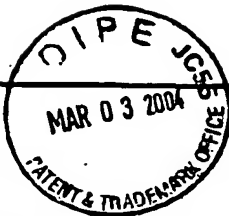
(Including Author, Title, Date, Pertinent Pages etc.)

<i>1A</i>	CA	G. Benedek et al., "Electron Emission From Ferroelectric/Antiferroelectric Cathodes Excited by Short High-Voltage Pulses", Journal Applied Physics, Vol. 81, No. 3, 1 February 1997, pages 1396-1403
<i>1A</i>	CB	Gundel, H. et al., "Low Pressure Hollow Cathode Switch Triggered by a Pulsed Electron Beam Emitted From Ferroelectrics", Applied Physics Letter, American Institute of Physics, New York, US Vol. 54, No. 21, 22 May 1989, pages 2071-2073
<i>1A</i>	CC	Gundel, H. et al., "Time-Dependent Electron Emission From Ferroelectrics by External Pulsed Electric Fields", Journal of Applied Physics, American Institute of Physics, New York, US Vol. 69, No. 2, 15 January 1991, pages 975-982

Examiner: <i>Thuy V. Tran</i>	Date Considered: <i>08/01/05</i>
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PATENT AND TRADEMARK OFFICE**INFORMATION DISCLOSURE  
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				Filing Date	November 21, 2003
				First Named Inventor	Yukihisa TAKEUCHI
				Art Unit	<del>2857</del> 2821
				Examiner Name	Not assigned Tran, Thuy V.
				Confirmation No.	3363
				Attorney Docket No.	789_120

**U.S. PATENT DOCUMENTS**

Exam. Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
1-1	BI	5,508,590	04/16/1996	Sampayan et al.	/	315	169.1	/
1-1	BJ	5,453,661	09/26/1995	Auciello et al.	/	315	1	/
1-1	BK	6,157,145	12/5/2000	Vollkommer et al.	/	315	339	/

**U.S. COPENDING APPLICATIONS**

Exam. Initial		Application/ Publication Number	Filing/ Publication Date	Inventor Name	Our Docket No.	Class	Sub Class
1-1	BM	10/730,754	12/08/2003	Takeuchi et al.	789 118 CIP	313	311
1-1	BN	10/731,901	12/09/2003	Takeuchi et al.	789 122	315	169.2

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Sub Class	Translation	Abstract
1-1	BO	3833604	04/05/1990	DE	/	/	✓	
1-1	BP	2639151	05/18/1990	FR	/	/	✓	
1-1	BQ	428853	05/29/1991	EP	/	/	✓	

**OTHER DOCUMENTS**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	November 21, 2003
(use as many sheets as necessary)				First Named Inventor	Yukihisa TAKEUCHI
				Art Unit	Not assigned 2821
				Examiner Name	Not assigned Tran, Thuy ✓
				Confirmation No.	Unknown
Sheet	1	of	1	Attorney Docket No.	789_120

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### U.S. COPENDING APPLICATIONS

Exam. Initial		Application/ Publication Number	Filing/ Publication Date	Inventor Name	Our Docket No.	Class	Sub Class
11.	BA	10/374,955	02/25/2003	Takeuchi et al.	789_105	315	169.3
11.	BB	10/459,415	06/11/2003	Takeuchi et al.	789_108 CIP	315	169.3
11.	BC	10/459,110	06/11/2003	Takeuchi et al.	789_109 CIP	315	169.1
11.	BD	10/459,416	06/11/2003	Takeuchi et al.	789_110 CIP	315	169.4
11.	BE	10/459,386	06/11/2003	Takeuchi et al.	789_111 CIP	315	169.1
11.	BF	10/647,794	08/25/2003	Takeuchi et al.	789_115	313	310
11.	BG	10/673,384	09/26/2003	Takeuchi et al.	789_116	313	495
11.	BH	10/671,763	09/26/2003	Takeuchi et al.	789_117	313	495
11.	BI	10/699,186	10/31/03	Takeuchi et al.	789_119	313	495
11.	BJ	10/719,596	11/21/03	Takeuchi et al.	789_121	313	309

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11/21/03

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				Art Unit	
				Examiner Name	
				Confirmation No.	
Sheet	1	of	2	Attorney Docket No.	

10/719,521  
 Concurrently Herewith 11/21/2003  
 Yukihiisa TAKEUCHI  
 2821  
 Han, Thuy V.  
 789 120

### U.S. PATENT DOCUMENTS

Exam. Initial	Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
11-11	5,874,802	02-23-1999	Choi et al.	—	313	495	—
11-11	2002/0153827	10-24-2002	Takeuchi et al.	—	313	495	—

### FOREIGN PATENT DOCUMENTS

Exam. Initial	Document Number	Date	Country	Class	Sub Class	Translation	Abstract
11-11	AA 1-311533 A	12-15-1989	JP	—	—	—	✓
11-11	AB 7-147131 A	06-06-1995	JP	—	—	JPO Machine Translation	✓
11-11	AC 2000-285801 A	10-13-2000	JP	—	—	JPO Machine Translation	✓
11-11	AD 46-20944	06-12-1971	JP	—	—	✓	
11-11	AE 44-26125	11-04-1969	JP	—	—	✓	
11-11	AF 11-185600	07-09-1999	JP	—	—	JPO Machine Translation	✓
11-11	AG 10-27539 A	01-27-1998	JP	—	—	JPO Machine Translation	✓
11-11	AH 11-288249 A	10-19-1999	JP	—	—	JPO Machine Translation	✓
11-11	AI 63-150837 A	06-23-1988	JP	—	—	—	✓
11-11	AJ 09-090882 A	04-04-1997	JP	—	—	JPO Machine Translation	✓
11-11	AK 59-208587	11-26-1984	JP	—	—	Partial	
11-11	AL 3160213 B2	02-16-2001	JP	—	—	JPO Machine Translation	✓
11-11	AM 0 953 958 A2	11-03-1999	EP	—	—	Abstract	
11-11	AN 2000-310970 A	11-07-2000	JP	—	—	JPO Machine Translation	✓
11-11	AO 02/052600 A1	07-04-2002	WO	—	—	Abstract	

Examiner: <i>Thuy V. Han</i>	Date Considered: <i>03/01/05</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

11/21/03

Form PTO-1449  US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Complete if Known	
				Application Number	10/719,521
				Filing Date	Concurrently Herewith 11/21/2003
				First Named Inventor	Yukihisa TAKEUCHI
				Art Unit	2821
				Examiner Name	han, thuy v.
				Confirmation No.	—
Sheet	2	of	2	Attorney Docket No.	789_120

**U.S. PATENT DOCUMENTS**

Exam. Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date

**U.S. COPENDING APPLICATIONS**

Exam. Initial		Application/ Publication Number	Filing/ Publication Date	Inventor Name	Our Docket No.	Class	Sub Class

**OTHER DOCUMENTS**  
(Including Author, Title, Date, Pertinent Pages etc.)

AP	11/	"Pulsed Electron Source Using a Ferroelectric Cathode," Tokyo Institute of Technology, Vol. 68, No. 5, 7 January 1999, pp. 546-550.
AQ	11/	Puchkarev, Victor F. and Mesyats, Gennady A., "On the Mechanism of Emission from the Ferroelectric Ceramic Cathode," Journal of Applied Physics, Vol. 78, No. 9, 1 November 1995, pp. 5633-5637.
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Examiner:	Thuy V. Han	Date Considered:	03/07/04
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